



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/881,597	06/14/2001	Alamgir Farouk	05288.00004	6419
22907	7590	03/25/2005	EXAMINER	
BANNER & WITCOFF 1001 G STREET N W SUITE 1100 WASHINGTON, DC 20001			ALAM, UZMA	
			ART UNIT	PAPER NUMBER
			2157	
DATE MAILED: 03/25/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	(initials)
	09/881,597	FAROUK, ALAMGIR	
	Examiner Uzma Alam	Art Unit 2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 29 November 2004.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-31 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-31 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 14 June 2001 is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

## **DETAILED ACTION**

This action is responsive to the amendment filed November 29, 2004. Claims 1-31 are pending. Claims 1-31 represent a method for presenting content based on the device description.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 11-14, 17, 18, 20, 22-25, 29-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Kikinis US Patent No. 5,727,159. Kikinis discloses the invention as claimed including a method for allowing low capability computers to browse the internet.

As per claim 1, Kikinis discloses a method for providing authored content, from device-independent content generated by a content author, to any of a plurality of requesting user network terminal devices, each requesting user network terminal device having means for delivering at least a portion of the authored content received, the presentation of authored content so delivered being dependent on feature values of the requesting network terminal device, said method comprising the steps of:

associating one or more of the device feature values with a requesting user network terminal device in response to said requesting user network terminal device transmitting a

Art Unit: 2157

request for the authored content (requesting a document and sending device features with the document; column 8, lines 31-41; column 9, lines 26-54); and

converting the device-independent content into a device-specific content adapted to said requesting user network terminal device, such that said device-specific content provides for a display on said requesting user network terminal device in a format as intended by the content author (converting the image to a size displayable on the client without changing the intended use of the content; column 10, lines 19-67).

As per claim 2, Kikinis discloses the method of claim 1 further comprising the step of specifying a feature-value set for the plurality of user network terminal devices, said feature-value set including a set of selected device features with one or more discrete feature values assigned to each said selected device feature, each said selected device feature selected from the features of the plurality of user network terminal devices in accordance with a pre-established criterion (setting features on a device to be modified; column 6, lines 55-67; column 7, lines 16-25; column 10, lines 19-44).

As per claim 3, Kikinis discloses the method of claim 2 wherein said set of selected device features comprises a member of the group consisting of display size, aspect ratio, display line count, color capability, graphics capability, variable size text capability, different font capability, input capability, and input bandwidth (column 6, lines 55-67; column 7, lines 16-25; column 10, lines 19-44).

As per claim 4, Kikinis discloses the method of claim 2 wherein said pre-established criterion includes a determination that a particular said selected device feature affects the manner in which the authored content is presented (the device decides how the content is presented; column 6, lines 55-67; column 7, lines 16-25; column 10, lines 19-44).

As per claim 5, Kikinis discloses the method of claim 2 wherein said feature value set comprises discrete values assigned to selected features of a generic network terminal device (each feature of a device is evaluated and the capability is valued; column 6, lines 55-67; column 7, lines 16-25; column 10, lines 19-44).

As per claim 6, Kikinis discloses the method of claim 5 wherein said generic network terminal device comprises a set of device features selected from the display features of the plurality of user network terminal devices (column 6, lines 55-67; column 7, lines 16-25; column 10, lines 19-44).

As per claim 11, Kikinis discloses the method of claim 1 wherein said requesting user network terminal device comprises at least one of a wireless telephone and a personal digital assistant (column 4, lines 45-47; column 7, lines 44-56)

As per claim 12, Kikinis discloses the method of claim 1 further comprising the step of identifying said requesting user network terminal device prior to said step of associating one or

more of the device feature display values (column 6, lines 37-47; column 7, lines 14-25; column 8, lines 31-41).

As per claim 13, Kikinis discloses the method of claim 12 wherein said step of identifying said requesting user network terminal device comprises the step of reading network terminal device information contained in said request (column 6, lines 37-47; column 7, lines 14-25; column 8, lines 31-41).

As per claim 14, Kikinis discloses the method of claim 1 wherein said step of converting the device independent content comprises the steps of:

determining the array of display pixels available in said requesting user network terminal device from the feature values (column 10, lines 9-24);

comparing said array of display pixels with an array of image pixels corresponding to an authored content image (column 10, lines 9-24);

selecting said authored content image for display in said requesting user network terminal device if said array of image pixels does not exceed said array of display pixels (column 10, lines 9-24); and

suppressing said authored content image from display if said array of image pixels does exceed said array of display pixels (column 10, lines 9-24).

As per claim 17, Kikinis discloses the method of claim 1 wherein said step of converting the device independent content comprises the steps of:

determining that said authored content is marked as having a bi-axially free form characteristic (column 7, lines 14-25);

identifying the character count supported by a display in said requesting user network terminal device (column 7, lines 14-25; column 10, lines 46-56);

sending to said requesting user network terminal device a segment of authored content, wherein the character count in said segment corresponds to said character count supported by said display (column 10, lines 46-56).

As per claim 18, Kikinis discloses a communication system for providing authored content to any of a plurality of requesting user network terminal devices, each requesting user network terminal device having means for delivering at least a portion of the authored content received, the presentation of authored content so delivered being dependent on features of the requesting user network terminal device, said communication system comprising:

a network terminal device detector for receiving a display request from the requesting user network terminal device and providing therefrom identification of the requesting user network terminal device (requesting a document and sending device features with the document; column 8, lines 31-41; column 9, lines 26-54);

an origin server for receiving said display request and, in response thereto, providing device-independent content corresponding to said display request (converting the image to a size displayable on the client without changing the intended use of the content; column 10, lines 9-24);

a transformer for associating one or more user network terminal device feature values with said requesting user network terminal device in response to receiving said user network terminal device identification from said terminal device detector, for receiving said device-independent content from said origin server, and for transforming said device-independent content into device-specific content formatted for the requesting user network terminal device (converting the image to a size displayable on the client without changing the intended use of the content; column 10, lines 26-67).

As per claim 20, Kikinis discloses the communication system of claim 18 further comprising a device profile repository accessible by said network terminal device detector, said device profile repository including a feature-value set for the requesting user network terminal device, said feature-value set including a set of selected user network terminal device features with one or more discrete device feature values assigned to each said selected user network terminal device feature (setting features on a device to be modified; column 6, lines 55-67; column 7, lines 14-56; column 10, lines 19-44).

As per claim 22, Kikinis discloses the communication system of claim 18 wherein each said selected user network terminal device feature is selected from the features of the plurality of requesting user network terminal devices in accordance with a pre-established criterion (setting features on a device to be modified; column 6, lines 55-67; column 7, lines 14-56; column 10, lines 19-44).

As per claim 23, Kikinis discloses the communication system of claim 18 wherein said set of selected device features comprises a member of the group consisting of display size, aspect ratio, display line count, color capability, graphics capability, variable size text capability, different font capability, and input capability (column 6, lines 55-67; column 7, lines 14-56; column 10, lines 19-44).

As per claim 24, Kikinis discloses the method of claim 18 wherein said requesting user network terminal device comprises at least one of a wireless telephone and a personal digital assistant (column 4, lines 45-47; column 7, lines 44-56)

As per claim 25, Kikinis discloses a method of presenting content to a terminal device having particular display characteristics, said method comprising the steps of:

receiving a request for content from the terminal device (requesting a document and sending device features with the document; column 8, lines 31-41; column 9, lines 26-54);  
based on said request, identifying display characteristics associated with the terminal device (requesting a document and sending device features with the document; column 8, lines 31-41; column 9, lines 26-54);

converting the content into a device-dependent format compatible with said identified display characteristics (converting the image to a size displayable on the client without changing the intended use of the content; column 10, lines 19-24); and

transmitting said device-dependent formatted content to the terminal device (converting the image to a size displayable on the client without changing the intended use of the content; column 10, lines 26-67).

As per claim 29, Kikinis discloses the method of claim 25 wherein said step of converting comprises the step of converting the content into a small-sized image if the terminal device accommodates only small-sized images, and converting the content into a large-sized image if the terminal device accommodates large-sized images (setting features on a device to be modified; column 6, lines 55-67; column 7, lines 14-25; column 10, lines 19-44).

As per claim 31, Kikinis discloses the method of claim 25 wherein said step of converting comprises the step of performing a best-fit match between said display characteristics and one of a plurality of display formats (column 10, lines 19-24).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7-10, 19, 21, 26 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kikinis US Patent No. 5,727,159 in view of Moore US Patent No. 6,310,601. Moore

discloses the invention as claimed including using tags in an html document to format the document (see abstract).

As per claim 7, Kikinis discloses the method of claim 1. Kikinis does not disclose further comprising the step of annotating the authored content with markup information to provide the device-independent content, said markup information specifying intent of the content author for one or more corresponding device feature values. Moore discloses further comprising the step of annotating the authored content with markup information to provide the device-independent content, said markup information specifying intent of the content author for one or more corresponding device feature values (column 3, lines 31-52; column 4, lines 20-60; column 5, lines 1-18; column 6, lines 1-30). It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of ordinary skill in the art would have been motivated to do this to be able to display web pages and images more accurately.

As per claim 8, Kikinis discloses the method of claim 7. Kikinis does not disclose wherein said step of converting the device-independent content comprises the step of invoking said markup information corresponding to the device feature values associated with said requesting user network terminal device. Moore discloses converting the device-independent content comprises the step of invoking said markup information corresponding to the device feature values associated with said requesting user network terminal device (column 4, lines 20-60). It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of

ordinary skill in the art would have been motivated to do this to be able to display web pages and images more accurately.

As per claim 9, Kikinis discloses the method of claim 7. Kikinis does not disclose wherein said step of converting the device-independent content comprises the step of removing said markup information from said device-independent content. Moore discloses converting the device-independent content comprises the step of removing said markup information from said device-independent content (column 6, lines 30-53; column 7, lines 1-41). It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of ordinary skill in the art would have been motivated to do this to be able to display web pages and images more accurately.

As per claim 10, Kiknis discloses the method of claim 7. Kiknis does not disclose wherein said step of annotating the authored content comprises the steps of: identifying that content in said authored content which requires author annotation; and embedding meta-data into said content requiring author annotation, said meta-data based on the feature values.

Moore discloses identifying that content in said authored content which requires author annotation (column 3, lines 33-67; column 4, lines 1-36); and embedding meta-data into said content requiring author annotation, said meta-data based on the feature values (column 4, lines 36-60).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of ordinary skill in the art would have been motivated to do this to be able to display web pages and images more accurately.

As per claim 19, Kikinis discloses the communication system of claim 18. Kikinis does not disclose wherein said device-independent content comprises markup information providing information for displaying said authored content in compliance with author intent. Moore discloses device-independent content comprises markup information providing information for displaying said authored content in compliance with author intent (column 3, lines 31-52; column 4, lines 20-60; column 5, lines 1-18; column 6, lines 1-30). It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of ordinary skill in the art would have been motivated to do this to be able to display web pages and images more accurately.

As per claim 21, Kikinis discloses the communication system of claim 18. Kikinis does not disclose further comprising a content repository accessible by said origin server, said content repository for storing annotated authored content generated by the content author whereby said origin server provides device-independent content from said annotated authored content. Moore discloses content repository accessible by said origin server, said content repository for storing annotated authored content generated by the content author whereby said origin server provides device-independent content from said annotated authored content (column 3, lines 31-52; column 4, lines 20-60; column 5, lines 1-18; column 6, lines 1-30). It would have been obvious to a

person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of ordinary skill in the art would have been motivated to do this to be able to display web pages and images more accurately.

As per claim 26, Kikinis discloses the method of claim 25. Kikinis does not disclose converting comprises the step of converting the content by interpreting metatags embedded in the content. Moore discloses converting comprises the step of converting the content by interpreting metatags embedded in the content (column 3, lines 33-67; column 4, lines 1-60). It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of ordinary skill in the art would have been motivated to do this to be able to display web pages and images more accurately.

As per claim 30, Kikinis discloses the method of claim 25. Kikinis does not disclose further comprising the step of annotating the content with meta-data to indicate the manner in which portions of the content should be represented on a plurality of different terminal devices, the terminal devices having mutually incompatible display characteristics. Moore discloses annotating the content with meta-data to indicate the manner in which portions of the content should be represented on a plurality of different terminal devices, the terminal devices having mutually incompatible display characteristics (column 3, lines 33-67; column 4, lines 1-60). It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the metatags of Moore with the modifying format of Kikinis. A person of ordinary skill

in the art would have been motivated to do this to be able to display web pages and images more accurately.

Claims 15, 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kikinis US Patent No. 5.727.159 in view of Rohrabaugh et al. US Patent Publication No. 2002/0091738. Rohrabaugh discloses the invention as claimed including a resolution independent vector display of Internet content (see abstract).

As per claim 15, Kikinis discloses the method of claim 1 wherein said step of converting the device independent content comprises the steps of:

determining an aspect ratio for said requesting user network terminal device from the feature values (column 10, lines 19-25 and lines 46-67)

sending authored content marked with an attribute of square to said requesting user network terminal device if said aspect ratio is square (column 10, lines 46-67). Kikinis does not explicitly disclose sending authored content marked with an attribute of portrait to said requesting user network terminal device if said aspect ratio is portrait; and

sending authored content marked with an attribute of landscape to said requesting user network terminal device if said aspect ratio is landscape.

Rohrabaugh discloses sending authored content marked with an attribute of portrait to said requesting user network terminal device if said aspect ratio is portrait (paragraph 0102); and sending authored content marked with an attribute of landscape to said requesting user network terminal device if said aspect ratio is landscape (paragraph 0102).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the display of the aspect ratio of Kikinis with the portrait and landscape display of Rohrabaugh. A person of ordinary skill in the art would have been motivated to do this to format content specifically for a particular user device.

As per claim 27, Kikinis discloses the method of claim 25. Kikinis does not disclose wherein said step of converting comprises the step of converting the content into a landscape formatted display format if the terminal device has a landscape-formatted display, and converting the content into a portrait- formatted display format if the terminal device has a portrait-formatted display. Rohrabaugh discloses converting to a portrait or landscape formatted display. See paragraph 0102. It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the display of the aspect ratio of Kiknis with the portrait and landscape display of Rohrabaugh. A person of ordinary skill in the art would have been motivated to do this to format content specifically for a particular user device.

As per claim 28, Kikinis discloses the method of claim 25. Kikinis does not disclose wherein said step of converting comprises the step of converting the content into a first aspect ratio if the terminal device has said first aspect ratio, and converting the content into a second aspect ratio of the terminal device has said second aspect ratio. Rohrabaugh discloses converting the content into a first aspect ratio if the terminal device has said first aspect ratio, and converting the content into a second aspect ratio of the terminal device has said second aspect ratio. See paragraph 0102. It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the display of the aspect ratio of Kikinis with the portrait and landscape

Art Unit: 2157

display of Rohrabaugh. A person of ordinary skill in the art would have been motivated to do this to format content specifically for a particular user device.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kikinis US Patent No. 5,727,159 in view of Lo et al. US Patent No. 6,523,040. Lo discloses the invention as claimed including displaying content to a user with specific preferences.

Kikinis discloses the method of claim 1.

Kikinis does not explicitly disclose wherein said step of converting the device independent content comprises the steps of:

determining that said authored content is marked as having a uni-axis free form characteristic;

identifying the number of segments supported by the display in said requesting user network terminal device;

concatenating a number of rows for sending to said requesting user network terminal device if said uni-axis free form characteristic includes a list characteristic, wherein said number of rows corresponds to said number of segments supported; and

concatenating a number of columns for sending to said requesting user network terminal device if said uni-axis free form characteristic includes a column characteristic, wherein said number of columns corresponds to said number of segments supported.

Lo discloses a method comprising:

determining that said authored content is marked as having a uni-axis free form characteristic (column 6, lines 46-67; column 7, lines 1-35);

identifying the number of segments supported by the display in said requesting user network terminal device (column 6, lines 46-67; column 7, lines 1-35);

concatenating a number of rows for sending to said requesting user network terminal device if said uni-axis free form characteristic includes a list characteristic, wherein said number of rows corresponds to said number of segments supported (column 6, lines 46-67; column 7, lines 1-35); and

concatenating a number of columns for sending to said requesting user network terminal device if said uni-axis free form characteristic includes a column characteristic, wherein said number of columns corresponds to said number of segments supported (column 6, lines 46-67; column 7, lines 1-35).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the viewing of Kikinis with the concatenating of Lo. A person of ordinary skill in the art would have been motivated to do this to allow the user to view the content properly.

#### ***Response to Arguments***

Applicant's arguments with respect to claims 1-31 have been considered but are moot in view of the new ground(s) of rejection.

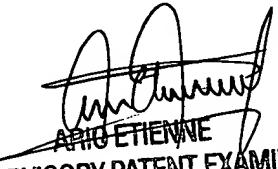
***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Uzma Alam whose telephone number is (571) 272-3995. The examiner can normally be reached on Monday-Tuesday 11:30am-8pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Uzma Alam  
ua



Ario Etienne  
SUPERVISORY PATENT EXAMINER  
BIOLOGY CENTER 2100